

Applicant : Chi Fung Cheng  
Serial No. : 10/802,597  
Filed : March 16, 2004  
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Attorney's Docket No.: 13361-077001 / MP0422

Amendments to the Drawings:

The attached replacement sheet of drawings includes changes to Figure 6 and replaces the original sheet including Figure 6.

In Figure 6, Applicant has amended revised the counter 600 to show elements included therein that are discussed in the specification. No new matter has been added.

Attachments following last page of this Amendment:

Replacement Sheet (1 page)  
Annotated Sheet Showing Change(s) (1 page)

REMARKS

Claims 1-11, 20-30, 39-49, 58-68 and 77-87 remain pending in the application. Applicant respectfully requests reconsideration in view of the foregoing amendments and these remarks.

Applicant notes with appreciation the courtesies extended by Examiner Luu in a personal interview with Applicant's representative, Mark Kirkland, conducted on February 22, 2006. In the interview, Applicant discussed the Examiner's objections to the drawings and the claims. Applicant agreed to amend Figure 6 to show additional detail as is discussed in Applicant's specification with reference to Figure 6. Agreement was reached that Applicant would amend Fig. 6 to add the clarifying detail requested by the Examiner, such amendment being attached herewith. Further, agreement was reached that the independent claims were in allowable form and distinguish over the art of record specifically over the Mar reference, subject to an additional search. Applicant submits in view of the agreement that the claims are now in condition for allowance. If any issues remain outstanding, the Examiner is respectfully requested to contact the undersigned at 650-839-5111.

The drawings were objected to by the Examiner under 37 CFR 1.83(b). Applicant respectfully traverses the rejection. A substitute drawing sheet adding detail to Figure 6 is attached hereto. No new matter has been added. Support for the noted modifications can be found at least at page 13. lines 1-14. Specifically, the counter 600 supports both multiplication and division functions, outputting signals in support of both operations to flip flop 604.

Claims 1-11, 20-30, 39-49, 58-68 and 77-87 were rejected under 35 USC 112, second paragraph, as being indefinite. As noted above, Applicant's representative and the Examiner reached agreement that the claims as presented were in allowable form. Applicant has amended Figure 6 as requested by the Examiner to clarify details related to its functionality. Applicant respectfully asserts that the claims as presented are in allowable form and respectfully requests withdrawal of the 35 USC 112 rejection.

Claims 1-3, 8, 20-22, 27, 39-41, 46, 58-60, 65, 77-79 and 84 were rejected under 35 USC 102(b) as being anticipated by US Patent No. 6, 114, 914 to Mar (hereinafter "Mar"). Applicant respectfully traverses the rejection.

As indicated above, agreement was reached that claims (i.e., including at least claims 1-3, 8, 20-22, 27, 39-41, 46, 58-60, 65, 77-79 and 84) were in allowable form and distinguish over the art of record. Accordingly, in view of the agreement, Applicant respectfully requests withdrawal of the 35 USC 102(b) rejection.

More specifically, Mar shows a singular fractional divider as shown in Fig. 5 (i.e., programmable divider 122). With reference to at least claim 1, Mar does not teach or suggest Applicant's claimed combination of a integer divider and frequency multiplier.

Claims 2-3 and 8 depend from claim 1 and are allowable at least for the same reasons as claim 1.

Claim 20 is directed to a method that includes dividing a feedback loop signal and multiplying the divided signal. Mar does not teach or suggest such a combination.

Claims 21-22 and 27 depend claim 20 and are allowable at least for the same reasons as claim 20.

Claim 39 is directed to a disk drive system that includes a combination of a integer divider and frequency multiplier. Mar does not teach or suggest such a combination.

Claims 40-41 and 46 depend from claim 39 and are allowable at least for the same reasons as claim 39.

Claim 58 is directed to a phase locked loop that includes means for dividing a feedback loop signal and means for multiplying the divided signal. Mar does not teach or suggest such a combination.

Claims 59-60 and 65 depend claim 58 and are allowable at least for the same reasons as claim 58.

Claim 77 is directed to a disk drive system that includes a combination of a dividing means and multiplying means. Mar does not teach or suggest such a combination.

Claims 78-79 and 84 depend from claim 77 and are allowable at least for the same reasons as claim 77.

Claims 4-6, 23-25, 42-45, 61-63, and 80-82 were rejected under 35 USC 103(a) as being unpatentable over Mar and further in view of US Patent No. 6, 456, 959 to Kattan. Applicant respectfully traverses the rejection.

As indicated above, agreement was reached that claims (i.e., including at least claims 4-6, 23-25, 42-45, 61-63, and 80-82) were in allowable form and distinguish over the art of record, including at least over Mar. Accordingly, in view of the agreement, Applicant respectfully requests withdrawal of the 35 USC 103(a) rejection.

Further, Applicant respectfully asserts claims 4-6 depend from claim 1 and are allowable for at least the additional reasons set forth above with respect to claim 1.

Claims 23-25 depend from claim 20 and are allowable for at least the additional reasons set forth above with respect to claim 20.

Claims 42-45 depend from claim 39 and are allowable for at least the additional reasons set forth above with respect to claim 39.

Claims 61-63 depend from claim 58 and are allowable for at least the additional reasons set forth above with respect to claim 58.

Claims 80-82 depend from claim 77 and are allowable for at least the additional reasons set forth above with respect to claim 77.

Claims 9-11, 28-30, 47-49, 66-68, and 85-87 were rejected under 35 USC 103(a) as being unpatentable over Mar and further in view of US Patent No. 5, 959, 502 to Ovens. Applicant respectfully traverses the rejection.

As indicated above, agreement was reached that claims (i.e., including at least claims 9-11, 28-30, 47-49, 66-68, and 85-87) were in allowable form and distinguish over the art of record, including at least over Mar. Accordingly, in view of the agreement, Applicant respectfully requests withdrawal of the 35 USC 103(a) rejection.

Further, Applicant respectfully asserts claims 9-11 depend from claim 1 and are allowable for at least the additional reasons set forth above with respect to claim 1.

Claims 28-30 depend from claim 20 and are allowable for at least the additional reasons set forth above with respect to claim 20.

Claims 47-49 depend from claim 39 and are allowable for at least the additional reasons set forth above with respect to claim 39.

Claims 66-68 depend from claim 58 and are allowable for at least the additional reasons set forth above with respect to claim 58.

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Claims 85-87 depend from claim 77 and are allowable for at least the additional reasons set forth above with respect to claim 77.

Applicant notes with appreciation that claims 7, 26, 45, 64 and 83 were merely objected as being dependent on a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. In view of the agreement reached between Applicant's representative and the Examiner, no amendment to these claims is presented at this time. Applicant respectfully asserts that the claims are allowable as presented. Further, Applicant agrees the claims are allowable for the reason set forth by the Examiner. However, Applicant respectfully asserts that this is not the only reason why these claims are allowable. Applicant respectfully asserts that the claims are allowable for other reasons including those set forth as part of this correspondence.

Enclosed is a credit card authorization for fees associated with an extension of time to respond to the instant action up to and including April 16, 2006. Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: 3/30/06



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## HIGH BANDWIDTH PHASE LOCK LOOP

CHENG

MP0422/CUST. NO.: 23624

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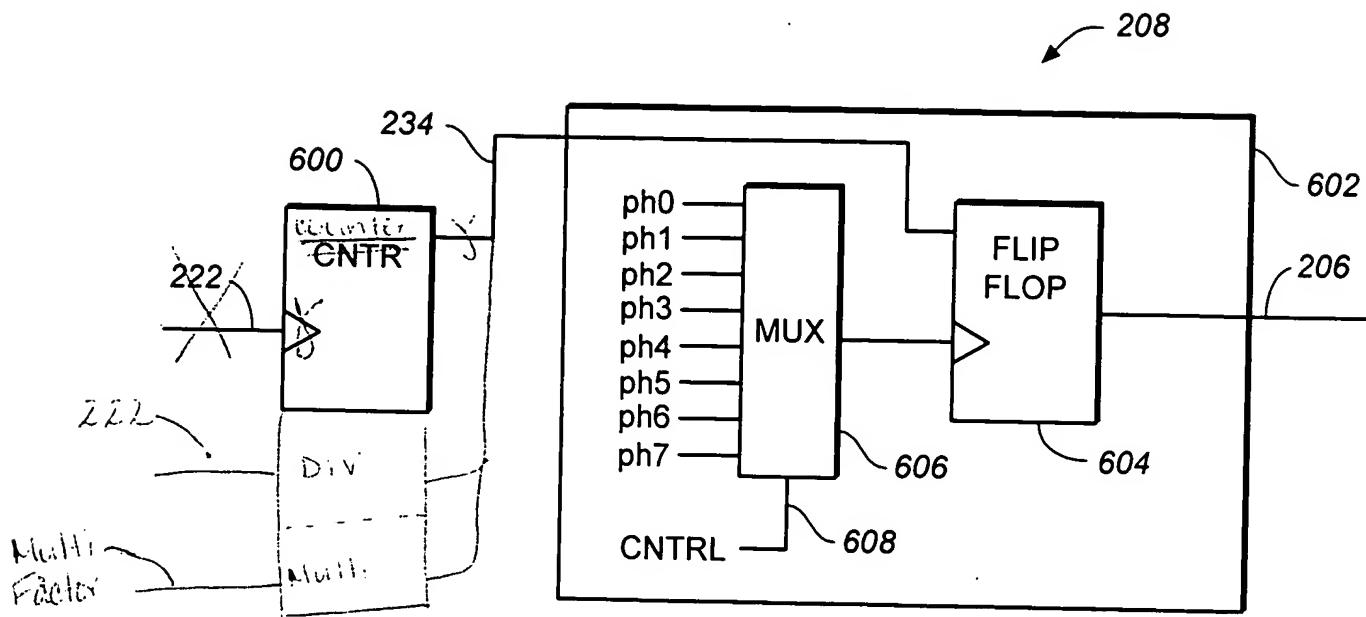


FIG. \_ 6

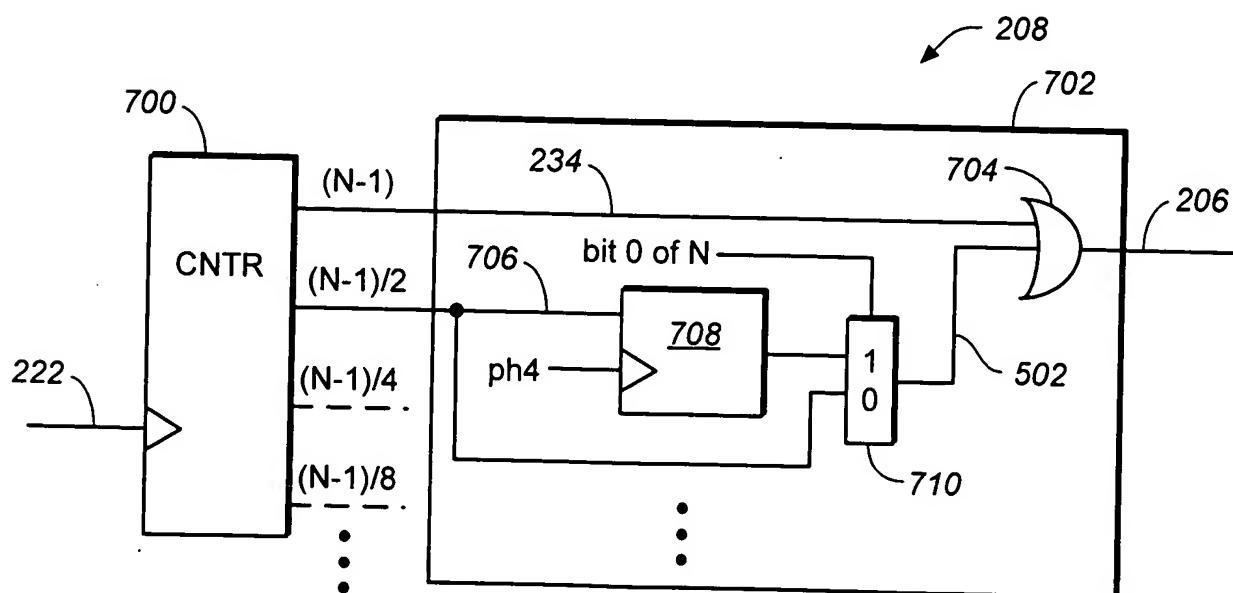


FIG. \_ 7